

poly(urethane/urea) resin of the present invention is from 1.3 to 6.0 % by weight.

C2 Typically, the molecular weight of R₃ is less than the molecular weight of R₄, and the molar ratio of R₄ to R₃ ranges between about 90:10 to about 10:90; and preferably, R₂ contains from about 30 to about 80 equivalent % of R₄, and the ratio of R₄ to R₃ is about 55:45.

In the Claims

Claims 1, 24, 28, 29 and 36 have been amended to read as follows:

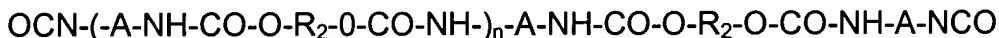
1. (Thrice Amended) A solvent-soluble poly(urethane/urea) resin derived from a polyurethane prepolymer being the reaction product of:

(a) a diisocyanate component and a diol component having:

- C3
- (i) a first diol having a molecular weight below 2000 and
 - (ii) a polymeric diol having a molecular weight below 3000; wherein the -NCO/-OH ratio is less than 2 and containing 1.3 to 6.0 wt. % of unreacted -NCO groups and

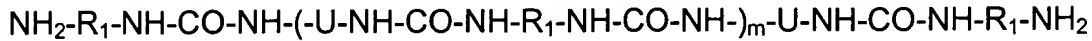
(b) diamine; wherein the amount of diamine is 100% to 120% based on the equivalents of unreacted -NCO groups and the polyurethane prepolymer is added to the diamine at a controlled rate of between about 3.33 to about 10 weight percent of polyurethane prepolymer per minute.

24. (Amended) The resin of claim 1 wherein the polyurethane prepolymer has the structure:

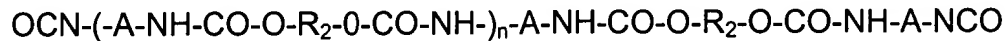


wherein -A- is an aryl or alkyl group; and R₂ comprises R₃ and R₄; wherein R₃ is an alkyl or a polymeric group having a molecular weight below 2000; wherein R₄ is a polymeric group having a molecular weight below 3000; wherein n is 1 or 2.

28. (Amended) The resin of claim 1 wherein the poly(urethane/urea) resin has the structure:



CS wherein R₁ is a covalent bond or a C₁₋₁₀ alkyl group; -U- has the structure; and m is ~4:



wherein -A- is an aryl or alkyl group; and R₂ comprises R₃ and R₄; wherein R₃ is an alkyl or a polymeric group having a molecular weight below 2000; wherein R₄ is a polymeric group having a molecular weight below 3000; wherein n is 1 or 2.

29. ((Thrice Amended) A solvent-based flexographic and gravure compatible laminating printing ink comprising:

(A) a solvent-soluble poly(urethane/urea) resin derived from a polyurethane prepolymer being the reaction product of:

(a) a diisocyanate component and a diol component having:

- CE
- (i) a first diol having a molecular weight below 2000 and
 - (ii) a polymeric diol having a molecular weight below 3000; wherein the -NCO/-OH ratio is less than 2 and containing 1.3 to 6.0 % by weight of unreacted -NCO groups and

(b) diamine; wherein the amount of diamine is 100% to 120% based on the equivalents of unreacted -NCO groups and the polyurethane prepolymer is added to the diamine at a controlled rate of between about 3.33 to about 10 weight percent of polyurethane prepolymer per minute;

(B) a colorant; and